Amendment to the Claims

1 – 31. Canceled.

32 (Previously presented).     A network paging method for enabling communications between a home agent and a wireless device over the Internet, said method comprising:

    triggering a mobile node (MN) when a paging request is received for said MN;

    triggering said MN when said MN changes Layer-2 paging area;

    triggering said MN when said MN changes mode;

    triggering an Access Router (AR) associated with said MN when Layer-2 state of said MN changes from an unreachable state to a reachable state;

    triggering said AR when Layer-2 state of said MN changes from said reachable state to said unreachable state; and

    wherein said triggering steps are performed via a communication over the Internet.


33 (Previously presented).     The method of Claim 32 wherein said communication is maintained under supervision of a network paging protocol comprising;

    Layer-3 network address structures, wherein Layer-3 refers to the network layer in the OSI stack;

    Layer-2 network address structures; and

    Paging area ID structures;, wherein said structures augment conventional Mobile IP communication protocols to affect network paging functionality associated with said MN.


34 (Previously presented).     The method of Claim 32 wherein said triggering when Layer-2 state of said MN changes from said unreachable state to said reachable state is sent to Layer-3 at said AR when said MN state in Layer-2 changes from said unreachable state to said reachable state.

35 (Previously presented).    The method of Claim 32 wherein said triggering when Layer-2 state of said MN changes from said reachable state to said unreachable state is sent to Layer-3 at said AR when said MN state in Layer-2 changes from said reachable state to said unreachable state.

36 – 39 (Canceled).